## (19) World Intellectual Property Organization International Bureau





## (43) International Publication Date2 October 2003 (02.10.2003)

PCT

## (10) International Publication Number WO 03/081614 A1

(51) International Patent Classification?: H01F 17/04, H05K 1/16, H01F 37/00, 41/04, 27/255

(21) International Application Number: PCT/IE03/00048

(22) International Filing Date: 27 March 2003 (27.03.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: S2002/0221

S2002/0223

27 March 2002 (27.03.2002) IE 27 March 2002 (27.03.2002) IE

(71) Applicant (for all designated States except US): COM-MERGY TECHNOLOGIES LIMITED [IE/IE]; 133 Lansdowne Park, Ballsbridge, Dublin 4 (IE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): YOUNG, George

[IE/IE]; 11 Woodlands Park, Blackrock, County Dublin (IE): WALSH, Patrick [IE/IE]; 19 Summerfield Meadows, Blanchardstown, Dublin 15 (IE).

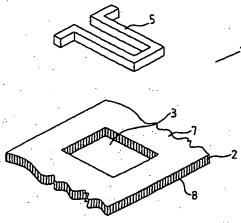
(74) Agents: O'CONNOR, Donal, H. et al.; Cruickshank & Co., 1 Holles Street, Dublin 2 (IE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

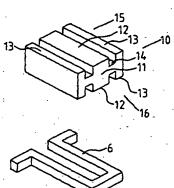
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO.

[Continued on next page]

(54) Title: "A MAGNETIC STRUCTURE ASSEMBLY"



(57) Abstract: There is illustrated the assembly of a dual inductor (1) on to a printed circuit board (2). A printed circuit board (2) has a through hole (3). Then the first winding (5), formed from a stamping, is mounted across the hole (3). Then, the first winding (5) is connected to the first face (7) of the PCB (2). Then, a core assembly (10) is inserted into the, hole (3) from the direction of a second face (8) of the PCB (2). Then, at some stage, for example as shown, the second winding (6) is inserted into the core assembly (10) and affixed to the bottom face (8) of the PCB (2).



70 03/081614 A

## WO 03/081614 A1



SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.